



# FortiAP S421E

Information



January 4, 2018

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# Box Includes



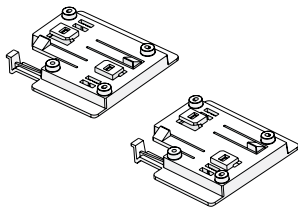
FortiAP S421E



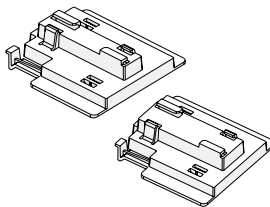
QuickStart Guide



Information Supplement



Standard Ceiling Bracket  
(2 Sizes)



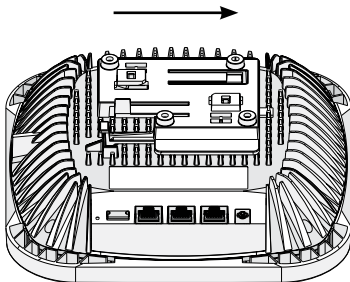
Recessed Ceiling Bracket  
(2 Sizes)

# Installation

The unit can be mounted on a ceiling using the provided ceiling mounting bracket.

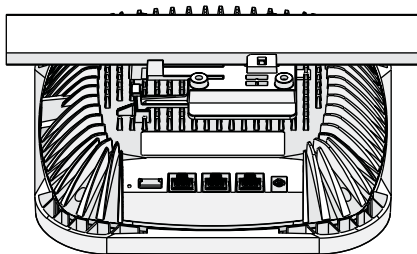
**To attach the unit to a ceiling using the ceiling mount bracket:**

1. Attach the **ceiling mount bracket** to the bottom cover of the FortiAP unit by sliding the ceiling the mount bracket from the left to the right onto the FortiAP Unit.  
If extra space is required to accommodate drop ceiling tiles, use the taller ceiling mount bracket.



2. Select an appropriate location, hold the device against the ceiling t-rail, and push the FortiAP unit onto the ceiling until it snaps into place.

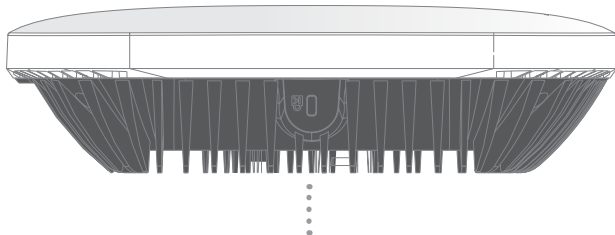
The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.



**Note:** Four ceiling mount brackets are included; both standard and recessed ceiling mount brackets come in sizes: 1.43cm (9/16in) and 2.38cm (15/16in).

To protect your device from unauthorized removal, use the Kensington™ Security Slot to attach a cable lock (not included).

## Device Guide



### **Kensington™ Security Slot**

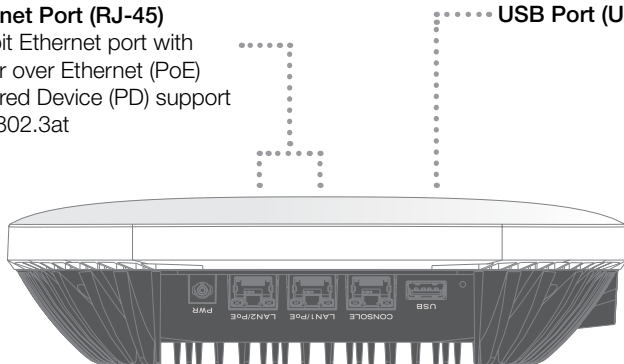
Anti-theft security slot for  
connecting lock-and-cable  
apparatus



### Ethernet Port (RJ-45)

Gigabit Ethernet port with  
Power over Ethernet (PoE)  
Powered Device (PD) support  
Use: 802.3at

### USB Port (USB A)

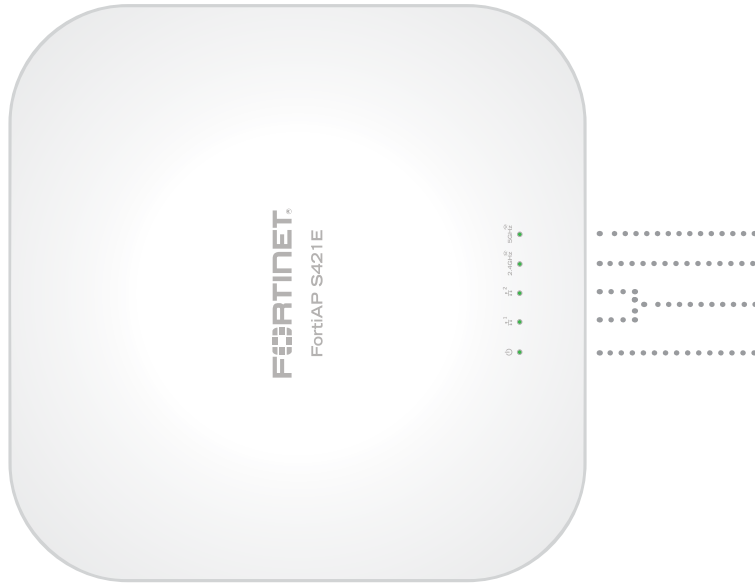


**Power**  
12V, 3A

### Console Port (RJ-45)

Optional management computer connection  
Provides access to the Command-Line  
Interface (CLI)

## Device Guide





### WiFi 5 GHz

- Green: Radio is enabled
- Flashing Green: Transmitting & receiving data at 5 GHz
- Off: Radio disabled or off



### WiFi 2.4 GHz

- Green: Radio is enabled
- Flashing Green: Transmitting & receiving data at 2.4 GHz
- Off: Radio disabled or off



### LAN 1 & 2

- Green: Connected at 1000 Mbps
- Amber: Connected at 100 Mbps
- Flashing Amber: Transmitting at 100 Mbps
- Flashing Green: Transmitting & receiving data at 1000 Mbps
- Off: No link established



### Power

- Green: Power on and ready for operation
- Flashing Green: Booting up
- Off: No power
- Amber: Customized Configuration



## Cautions and Warnings

### Environmental specifications

Ambient operating temperature: 0–45°C.

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Cautions:** This equipment is to be used in a Network Environment 0 per IEC62101. This product is connected only to PoE networks without routing to the outside plant.

**Attention:** Ce matériel doit être utilisé dans un Environnement Réseau 0 par IEC62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 3 A, Tma = 45°C or by 48-57 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 3 A, Tma = 45°C nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48-57 Vdc (PoE).

Suitable for use in environmental air space in accordance with Section 300-22(C) of the National Electrical Code, and Sections 2-128, 12-010(3) and 12-100 of the Canadian Electrical Code, Part 1, CSA C22.1.

Convient pour une utilisation dans l'espace aérien conformément à l'article 300-22 (C) du Code National de l'Électricité, et des articles 2-128, 12-010 (3) et 12-100 du Code de l'électricité canadien, Partie 1, CSA C22.1.

## Regulatory Notices

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Cautions:** Operation of this device is restricted to indoor use only.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISSED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 30cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

**Caution:** Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

**Attention:** De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

**Caution:** The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

**Attention:** Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

This radio transmitter (7280B-28166022) has been approved by ISSED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (7280B-28166022) a été approuvé par ISSED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

#### Internal antennas:

Antenna	MPN	Antenna Type	Antenna Connector	Gain (dBi)				
				2.4 GHz	5 GHz (B1)	5 GHz (B2)	5 GHz (B3)	5 GHz (B4)
1	Senao 5718A0167300	PIFA	IPEX	3.98	–	–	–	–
2	Senao 5718A0168300	PIFA	IPEX	3.98	–	–	–	–
3	Senao 5718A0115300	PIFA	IPEX	3.98	–	–	–	–
4	Senao 5718A0116300	PIFA	IPEX	3.98	–	–	–	–
5	Senao 5718A0146300	PIFA	IPEX	–	4.78	4.61	5.84	5.84
6	Senao 5718A0118300	PIFA	IPEX	–	4.78	4.61	5.84	5.84
7	Senao 5718A0169300	PIFA	IPEX	–	4.78	4.61	5.84	5.84
8	Senao 5718A0120300	PIFA	IPEX	–	4.48	4.61	5.84	5.84

## European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2472 MHz less than 20 dBm  
5180-5240 MHz less than 23 dBm  
5260-5320 MHz less than 23 dBm \*  
5500-5700 MHz less than 30 dBm \*

Note: \* Only with DFS bands certification.

## Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including, combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end-customers directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

### Български

Този продукт е в съответствие с Директива 2014/53/EC.

### Česky

Tento produkt je v souladu se směrnici 2014/53/EU.

### Dansk

Denne produkt er i overensstemmelse med direktiv 2014/53/EU.

### Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

### Eesti

See toode vastab direktiivile 2014/53/EL.

### English

This product is in compliance with Directive 2014/53/EU.

### Español

Este producto cumple con la Directiva 2014/53/UE.

### Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

### Français

Ce produit est conforme à la Directive 2014/53/UE.

### Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

### Italiano

Questo prodotto è conforme alla Direttiva 2014/53/UE.

### Latviski

Šis produkts ir atbilstošs Direktīvas 2014/53/EU.

### Lietuvių

Šis gaminys atitinka direktyvą 2014/53/ES.

### Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

### Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

### Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

### Norsk

Denne produktet er i samsvar med direktiv 2014/53/EU.

### Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

### Português

Este produto está em conformidade com a Diretiva 2014/53/UE.

### Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

### Slovensky

Tento produkt je v súlade so smernicou 2014/53/EÚ.

### Slovensko

Ta izdelek je v skladu z Direktivo 2014/53/EU.

### Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

### Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available in the link below:

<https://site.fortinet.com/ProductRegulatory/EU>

## Voluntary Control Council for Interference (VCCI) – Japan

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取扱説明書に従って正しい取り扱いをして下さい。

V C C I – B

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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